

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Tuesday, February 4, 2020 3:44 PM
To: Waterson, Sara
Subject: FW: Updated Attachment 1 to First Amendment to Consent Order Paragraph 2.b. - outdoor ambient air monitoring results
Attachments: ATT00001.txt; Rev 20JAN20 GDCN Sample Results.pdf; Rev 17JAN20 GDCN Sample Results.pdf

Sara-

Here is the information I sent to Kristin for discussion on the analytical methods.

DeAnna

From: Hays, Karen <Karen.Hays@dnr.ga.gov>
Sent: Monday, February 3, 2020 8:31 AM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>; Damaske, Stephen <stephen.damaske@dnr.ga.gov>; Taylor, Sean <Sean.Taylor@dnr.ga.gov>
Cc: Kuoh, Dika <Dika.Kuoh@dnr.ga.gov>
Subject: FW: Updated Attachment 1 to First Amendment to Consent Order Paragraph 2.b. -outdoor ambient air monitoring results

From: Boone Brothers <Boone.Brothers@Bd.com>
Sent: Monday, February 3, 2020 8:16 AM
To: Hays, Karen <Karen.Hays@dnr.ga.gov>; Kuoh, Dika <Dika.Kuoh@dnr.ga.gov>; peckrote@law.ga.gov; Robin Leigh <rleigh@law.ga.gov>
Cc: Michelle Quinn <Michelle.Quinn@bd.com>; Ellen Kondracki <ellen.kondracki@bd.com>; Travis Anderton <travis_anderton@bd.com>; John LaMontagne <John.LaMontagne@bd.com>; loakes@kslaw.com; dhenderson@kslaw.com; Ron Pasdon <Ron.Pasdon@bd.com>; Haide Villuendas Sabate <Haide.Villuendas@bd.com>; Becky Mann <Becky.Mann@bd.com>; Jason Gaede <Jason.Gaede@bd.com>
Subject: Updated Attachment 1 to First Amendment to Consent Order Paragraph 2.b. -outdoor ambient air monitoring results

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Karen,

Good to speak with you this morning.
Attached are the updated tables.

Please let me know if you have any questions or if I can help in any other way.

Sincerely,

Boone



Boone Brothers, CSP, CHMM

Sr. EHS Manager, UCC Business Unit

boone.brothers@bd.com

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Covington, GA, 30014
USA

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Corporate Headquarters Mailing Address: BD (Becton, Dickinson and Company) 1 Becton Drive Franklin Lakes, NJ 07417
U.S.A.

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Wednesday, September 2, 2020 10:18 AM
To: Sanchez, Franklin; anita.saha@dph.ga.gov; Hoadley, Lydia (ATSDR/DCHI/OD); Waterson, Sara; jah8@cdc.gov
Subject: Oser, DeAnna shared "Copy of all site summary (004)" with you.

I have attached the RAW DATA summary for our data study. We had a very high value at our general coffee background site. The data is still under review, but currently appears to be valid. It was collected on a holiday weekend and may have been influenced by some activities in a public use area. If you are interested, I can set up another call to get your thoughts on this. Once we finish our review of the data, I will send the updated spreadsheet with wind directions and such.



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Copy of all site summary (004)

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Microsoft Corporation, One Microsoft Way, Redmond, WA 98052

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Tuesday, September 29, 2020 10:26 AM
To: Chen, Xi
Cc: Waterson, Sara
Subject: Data file
Attachments: covington jul 8_20 20 eto.pdf; C7 jul 20 eto.pdf

Doris and Sara,

Thank you again for your patience this morning as I found the correct file. We will follow up on the other items and let you know. Here is the file you requested...

I have also included the reanalysis.

DeAnna Oser
Ambient Monitoring Program Manager
GA EPD – Air Branch
DeAnna.Oser@dnr.ga.gov
Office: 404-363-7004

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Thursday, November 12, 2020 11:02 AM
To: Waterson, Sara; Brown, Ryan; Hoadley, Lydia (ATSDR/DCHI/OD); hzd3@cdc.gov; Sanchez, Franklin; anita.saha@dph.ga.gov; Byeong.Kim@dnr.ga.gov
Subject: Oser, DeAnna shared "Study results 11-11-2020" with you.

The link I sent yesterday had one data point that had been overwritten. please use this link instead.

thanks.
DeAnna



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Study results 11-11-2020

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Microsoft Corporation, One Microsoft Way, Redmond, WA 98052

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Monday, November 16, 2020 12:40 PM
To: Waterson, Sara; Brown, Ryan; Sanchez, Franklin; anita.saha@dph.ga.gov; Hoadley, Lydia (ATSDR/DCHI/OD); hzd3@cdc.gov; Byeong.Kim@dnr.ga.gov
Subject: Oser, DeAnna shared "Study results 11-16-2020" with you.

The data through August 31 had some issues (data was copied over inadvertently and we lost some corrections on older data). The attached link should reflect our updates and corrections. this will replace the link for 11-11-20. Thank you for your patience as we worked this out.

Please note that the FB samples are field blank samples and not site concentration values.

Let me know if you have any questions.

DeAnna



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Study results 11-16-2020

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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Monday, November 16, 2020 2:05 PM
To: Waterson, Sara
Cc: Gore, Jaime
Subject: RE: Oser, DeAnna shared "Study results 11-16-2020" with you.

Believe it or not – our highest two data points to date in the study (general coffee and c2) were in the 35000 series ---we will ask ERG to investigate both of those cans as well.

13 cans to date that we have results for have been 35000 – but only 5 or 6 were elevated results.

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Monday, November 16, 2020 12:51 PM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Subject: RE: Oser, DeAnna shared "Study results 11-16-2020" with you.

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thanks, DeAnna.
Question- did you happen to check to see if any of your other samples were from a can from the 35000 series?
Thanks!
Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Monday, November 16, 2020 12:40 PM
To: Waterson, Sara <Waterson.Sara@epa.gov>; Brown, Ryan <Brown.Ryan@epa.gov>; Sanchez, Franklin <Franklin.Sanchez@dph.ga.gov>; anita.saha@dph.ga.gov; Hoadley, Lydia (ATSDR/DCHI/OD) <nrd2@cdc.gov>; hzd3@cdc.gov; Byeong.Kim@dnr.ga.gov
Subject: Oser, DeAnna shared "Study results 11-16-2020" with you.

The data through August 31 had some issues (data was copied over inadvertently and we lost some corrections on older data). The attached link should reflect our updates and corrections. this will replace the link for 11-11-20. Thank you for your patience as we worked this out.

Please note that the FB samples are field blank samples and not site concentration values.

Let me know if you have any questions.

DeAnna



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Study results 11-16-2020

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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Monday, November 16, 2020 2:34 PM
To: Waterson, Sara
Cc: Gore, Jaime
Subject: RE: Oser, DeAnna shared "Study results 11-16-2020" with you.

General Coffee 7/2/20 and C2 was 7/26 – we will be asking ERG to investigate these two cans for sure.

Also interesting – the elevated values we noticed across the state on 9/18 – they were mostly, if not all, 35000 cans. VERY VERY interesting.

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Monday, November 16, 2020 2:11 PM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Cc: Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Subject: RE: Oser, DeAnna shared "Study results 11-16-2020" with you.

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VERY interesting.

Ken and Caroline are briefing Mary on this new information on Wednesday. If possible, would you be able to provide me the General Coffee and C2 dates?

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Monday, November 16, 2020 2:05 PM
To: Waterson, Sara <Waterson.Sara@epa.gov>
Cc: Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Subject: RE: Oser, DeAnna shared "Study results 11-16-2020" with you.

Believe it or not – our highest two data points to date in the study (general coffee and c2) were in the 35000 series ---we will ask ERG to investigate both of those cans as well.

13 cans to date that we have results for have been 35000 – but only 5 or 6 were elevated results.

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Monday, November 16, 2020 12:51 PM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Subject: RE: Oser, DeAnna shared "Study results 11-16-2020" with you.

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thanks, DeAnna.

Question- did you happen to check to see if any of your other samples were from a can from the 35000 series?

Thanks!

Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>

Sent: Monday, November 16, 2020 12:40 PM

To: Waterson, Sara <Waterson.Sara@epa.gov>; Brown, Ryan <Brown.Ryan@epa.gov>; Sanchez, Franklin <Franklin.Sanchez@dph.ga.gov>; anita.saha@dph.ga.gov; Hoadley, Lydia (ATSDR/DCHI/OD) <nrd2@cdc.gov>; hzd3@cdc.gov; Byeong.Kim@dnr.ga.gov

Subject: Oser, DeAnna shared "Study results 11-16-2020" with you.

The data through August 31 had some issues (data was copied over inadvertently and we lost some corrections on older data). The attached link should reflect our updates and corrections. this will replace the link for 11-11-20. Thank you for your patience as we worked this out.

Please note that the FB samples are field blank samples and not site concentration values.

Let me know if you have any questions.

DeAnna



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Study results 11-16-2020

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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Thursday, November 19, 2020 4:47 PM
To: Waterson, Sara; Brown, Ryan; Gore, Jaime
Subject: Oser, DeAnna shared "Study results 11-19-2020" with you.

updated as we discussed today with the flags. Flags added for 9/18 even though no values yet because those are still under review (but I wanted to be consistent)



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Study results 11-19-2020

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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Tuesday, December 8, 2020 11:32 PM
To: Waterson, Sara; Brown, Ryan; Hoadley, Lydia (ATSDR/DCHI/OD); hzd3@cdc.gov; anita.saha@dph.ga.gov; Sanchez, Franklin; Byeong.Kim@dnr.ga.gov; Aldredge, Janet
Subject: Oser, DeAnna shared "Study results 12-8-2020" with you.

here is the latest data we have in house. the cans we discussed on Monday have been qualified in the review. The memos to qualify the cans previously reviewed have been posted.

please let me or Janet know if you have any questions. thanks!



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Study results 12-8-2020

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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Thursday, February 4, 2021 11:01 AM
To: Byeong.Kim@dnr.ga.gov; Hoadley, Lydia (ATSDR/DCHI/OD); hzd3@cdc.gov; anita.saha@dph.ga.gov; franklin.sanchez@dph.ga.gov; Waterson, Sara; Brown, Ryan; Gore, Jaime
Subject: Oser, DeAnna shared "Study results 2-4-2021" with you.

Attached is the latest set of data that we have posted to our website. The red values are concentrations that may have been impacted by growth of the compound in the can - we have not invalidated this data because we are still investigating the issues.

Please let me know if you have any questions. A summary of the data through October 30 should be posted to our website this week.

DeAnna



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Study results 2-4-2021

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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Thursday, February 25, 2021 8:42 AM
To: Chen, Xi
Cc: Waterson, Sara; Wang, Corinna; Gore, Jaime
Subject: 35000 can data
Attachments: Entech Can series 35000 data for Doris.xlsx

Doris-

I apologize for taking so long to get this to you – we did not have everything you asked for in one place. Here is the information you requested on the 35000 can series we have used in our data study to date. The data for December has just been received and is still going through our QA review.

DeAnna Oser
Ambient Monitoring Program Manager
GA EPD – Air Branch
DeAnna.Oser@dnr.ga.gov
New office #:470-524-0541
Cell# 404-310-6353

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Tuesday, November 17, 2020 7:47 AM
To: Waterson, Sara
Cc: Gore, Jaime; Yasmin, Farhana
Subject: RE: Oser, DeAnna shared "Study results 11-16-2020" with you.

Sure – thanks – I’m adding the site and date for reference also.

35158 (C2 on 7/26)
35128 (C2 on 9/18)
35127 (F2 on 8/7)
35124 (General Coffee on 7/2)
35149 (South DeKalb on 9/18) – I think they are already investigating this one.

The other can used on 9/18 was 35128 (F2 QA) – but it was lower than the primary sample that day which was not a 35,000 series.

Thank you for getting Doris to have ERG check into this. Let me know if you need anything else.

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Tuesday, November 17, 2020 6:57 AM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Cc: Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Subject: RE: Oser, DeAnna shared "Study results 11-16-2020" with you.

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Well, I do think this could help explain some of those high numbers. I talked to Doris and she said she will follow up with ERG if you can get me the can IDs of the other high concentration samples.

Thanks!

Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Monday, November 16, 2020 2:34 PM
To: Waterson, Sara <Waterson.Sara@epa.gov>
Cc: Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Subject: RE: Oser, DeAnna shared "Study results 11-16-2020" with you.

General Coffee 7/2/20 and C2 was 7/26 – we will be asking ERG to investigate these two cans for sure.

Also interesting – the elevated values we noticed across the state on 9/18 – they were mostly, if not all, 35000 cans. VERY VERY interesting.

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Monday, November 16, 2020 2:11 PM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Cc: Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Subject: RE: Oser, DeAnna shared "Study results 11-16-2020" with you.

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VERY interesting.

Ken and Caroline are briefing Mary on this new information on Wednesday. If possible, would you be able to provide me the General Coffee and C2 dates?

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Monday, November 16, 2020 2:05 PM
To: Waterson, Sara <Waterson.Sara@epa.gov>
Cc: Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Subject: RE: Oser, DeAnna shared "Study results 11-16-2020" with you.

Believe it or not – our highest two data points to date in the study (general coffee and c2) were in the 35000 series ---we will ask ERG to investigate both of those cans as well.

13 cans to date that we have results for have been 35000 – but only 5 or 6 were elevated results.

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Monday, November 16, 2020 12:51 PM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Subject: RE: Oser, DeAnna shared "Study results 11-16-2020" with you.

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Thanks, DeAnna.

Question- did you happen to check to see if any of your other samples were from a can from the 35000 series?

Thanks!

Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Monday, November 16, 2020 12:40 PM
To: Waterson, Sara <Waterson.Sara@epa.gov>; Brown, Ryan <Brown.Ryan@epa.gov>; Sanchez, Franklin <Franklin.Sanchez@dph.ga.gov>; anita.saha@dph.ga.gov; Hoadley, Lydia (ATSDR/DCHI/OD) <nrd2@cdc.gov>; hzd3@cdc.gov; Byeong.Kim@dnr.ga.gov
Subject: Oser, DeAnna shared "Study results 11-16-2020" with you.

The data through August 31 had some issues (data was copied over inadvertently and we lost some corrections on older data). The attached link should reflect our updates and corrections. this will replace the link for 11-11-20. Thank you for your patience as we worked this out.

Please note that the FB samples are field blank samples and not site concentration values.

Let me know if you have any questions.

DeAnna



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Study results 11-16-2020

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Waterson, Sara

From: Chen, Xi
Sent: Thursday, February 25, 2021 11:01 AM
To: deanna.oser@dnr.ga.gov
Cc: Waterson, Sara; Wang, Corinna; Gore, Jaime
Subject: RE: 35000 can data

Hi DeAnna,

Are you referring to a few samples with final pressures reported with unit as "psig"? I do see a few of these with both field and lab pressure readings in "psig". Could you please double check on your end if those field pressures in "psig" entries are absolute pressure readings or gauge readings? Also if the reported unit is correct?

Thanks,
Doris

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Thursday, February 25, 2021 10:49 AM
To: Chen, Xi <Chen.Xi@epa.gov>
Cc: Waterson, Sara <Waterson.Sara@epa.gov>; Wang, Corinna <Wang.Corinna@epa.gov>; Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Subject: RE: 35000 can data

Doris,

I noticed that ERG logged in one or two cans as positive pressure – I have asked them about this – but have not gotten a response yet.

Let me know if you have other questions.

DeAnna

From: Chen, Xi <Chen.Xi@epa.gov>
Sent: Thursday, February 25, 2021 10:47 AM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Cc: Waterson, Sara <waterson.sara@epa.gov>; Wang, Corinna <wang.corinna@epa.gov>; Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Subject: RE: 35000 can data

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Great, thanks DeAnna for taking the time to put this together!

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Thursday, February 25, 2021 8:42 AM
To: Chen, Xi <Chen.Xi@epa.gov>
Cc: Waterson, Sara <Waterson.Sara@epa.gov>; Wang, Corinna <Wang.Corinna@epa.gov>; Gore, Jaime

<Jaime.Gore@dnr.ga.gov>

Subject: 35000 can data

Doris-

I apologize for taking so long to get this to you – we did not have everything you asked for in one place. Here is the information you requested on the 35000 can series we have used in our data study to date. The data for December has just been received and is still going through our QA review.

DeAnna Oser

Ambient Monitoring Program Manager

GA EPD – Air Branch

DeAnna.Oser@dnr.ga.gov

New office #:470-524-0541

Cell# 404-310-6353

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Monday, April 26, 2021 11:54 AM
To: anita.saha@dph.ga.gov; franklin.sanchez@dph.ga.gov; Hoadley, Lydia (ATSDR/DCHI/OD); hzd3@cdc.gov; Brown, Ryan; Waterson, Sara; Byeong.Kim@dnr.ga.gov; Gore, Jaime
Subject: Oser, DeAnna shared "study results through 12.17.20" with you.



Oser, DeAnna shared a file with you

Here is the file for data through December 17. The red indicates a possible can contamination issue. We will continue to update as we know more.

the order has changed. I apologize for that- we were sorting to add the flags and notes. Please note the change for the general coffee on 7/2.

please let me know if you have any questions.

DeAnna



study results through 12.17.20



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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Tuesday, June 8, 2021 2:38 PM
To: Hoadley, Lydia (ATSDR/DCHI/OD); anita.saha@dph.ga.gov; Waterson, Sara
Subject: Oser, DeAnna shared "Flagging methodology" with you.



Oser, DeAnna shared a file with you

In case you could not access the teams site



Flagging methodology



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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Thursday, July 22, 2021 1:33 PM
To: Waterson, Sara; Brown, Ryan; Hoadley, Lydia (ATSDR/DCHI/OD); hzd3@cdc.gov; franklin.sanchez@dph.ga.gov; anita.saha@dph.ga.gov; Byeong.Kim@dnr.ga.gov; jah8@cdc.gov
Subject: Oser, DeAnna shared "Study Results through 2-27-21" with you.



Oser, DeAnna shared a file with you

Attached is the data through February 2021. I have also attached a second sheet for the comparisons of the laboratory data at our NATTS site.

Please note that all ND data is now reflected as a concentration of 0.00 ug/m3. if a value was detected by the laboratory, they report that number and it is qualified with a "U" as below the MDL. The MDL was updated for 2021 and is reflected for each when updated.

DeAnna



Study Results through 2-27-21



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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Thursday, July 22, 2021 8:49 PM
To: Waterson, Sara; Brown, Ryan; hzd3@cdc.gov; Hoadley, Lydia (ATSDR/DCHI/OD); franklin.sanchez@dph.ga.gov; anita.saha@dph.ga.gov; Byeong.Kim@dnr.ga.gov; Gore, Jaime; jah8@cdc.gov
Subject: Oser, DeAnna shared "Study Results through 2-27-21" with you.



Oser, DeAnna shared a file with you

Updated file. we corrected a qualifier on the 2/9/21 sample at Near Road 285 (pressurized) sample.

Sorry for the inconvenience if you have already imported the file.

DeAnna



Study Results through 2-27-21



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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Wednesday, September 8, 2021 4:16 PM
To: Waterson, Sara; Brown, Ryan; Hoadley, Lydia (ATSDR/DCHI/OD); hzd3@cdc.gov; franklin.sanchez@dph.ga.gov; anita.saha@dph.ga.gov; Gore, Jaime
Subject: Oser, DeAnna shared "Study Results through 4.28.21" with you.



Oser, DeAnna shared a file with you

Here are the results through April for the study. Thank you for your patience. We had some discussion with the lab to clarify some issues. Please note that the 2/9/20 sample at the South DeKalb site has been voided due to contamination from the canister. There have been other LK flags added to previous samples as we learn more about the can history from the laboratory as well.

please let me know if you have any questions. thanks.

DeAnna



Study Results through 4.28.21



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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Thursday, August 22, 2019 8:01 AM
To: Waterson, Sara
Subject: Toxics

Sara,

Thanks for reaching out to Laura. We will not be including the NATTS TAD like the other QAPP did (only by reference) so that should cut down about 300 pages. We are following the format of our other QAPPS – I am hoping it will not take them long to look over since a lot of it is the same as the NATTS QAPP. We are aiming to have it to her by September 15 – sooner if we can. We are starting our sampling first of October. I know the timeline is short, but as you are aware, we are under directive to make this happen.

I mentioned it to Adam yesterday, but he agreed that we need to go through Laura for her to assign it.

Should I just talk to Laura directly?

Thank you for your help on this!
DeAnna

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Wednesday, August 28, 2019 11:41 AM
To: Waterson, Sara; Carlton-Carew, Njeri
Subject: Fwd: DQOs
Attachments: Section 7.docx; ATT00001.htm

Sent from my iPhone

Begin forwarded message:

From: "Aldredge, Janet" <Janet.Aldredge@dnr.ga.gov>
Date: August 27, 2019 at 10:55:09 AM EDT
To: "Ackerman, Laura" <Ackerman.Laura@epa.gov>
Cc: "Oser, DeAnna" <DeAnna.Oser@dnr.ga.gov>
Subject: RE: DQOs

Hello,
Please find attached Section 7 with data validation table.
Thanks,
Janet

From: Ackerman, Laura <Ackerman.Laura@epa.gov>
Sent: Tuesday, August 27, 2019 9:31 AM
To: Aldredge, Janet <Janet.Aldredge@dnr.ga.gov>
Cc: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Subject: RE: DQOs

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thanks, Janet. Was there an attachment? And yes, please send the data validation tables.

Thx,
Laura

From: Aldredge, Janet <Janet.Aldredge@dnr.ga.gov>
Sent: Tuesday, August 27, 2019 9:28 AM
To: Ackerman, Laura <Ackerman.Laura@epa.gov>
Cc: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Subject: DQOs

Hello Laura,
DeAnna had spoken with Sarah who said that you wanted to discuss the DQOs for our upcoming project's QAPP. I thought I would email these to you today so that you can look them over before we discuss them tomorrow. I have left out the data validation tables at this point, but can send them too if you would like to see them for the discussion tomorrow. Just let me know.

Thanks,
Janet

Waterson, Sara

From: Zachary, Adam
Sent: Wednesday, September 11, 2019 2:20 PM
To: Oser, DeAnna
Cc: Ackerman, Laura; Gillam, Rick; Waterson, Sara
Subject: QAPP Review Comments | GAEPD Ethylene Oxide QAPP, SEPT 2019 (19-0475)
Attachments: GAEPD_19-0475_EtO_QAPP_V1_AZ.pdf

Importance: High

Good afternoon Ms. Oser,

Attached, please find an annotated PDF-file version of the *Quality Assurance Project Plan for the Georgia Ambient Air Monitoring Program, Ethylene Oxide, Revision 0, September 2019*. The annotated PDF-file version of the QAPP contains highlighted areas of concern, and the annotations are accessible via the Adobe comment function (or simply hover the mouse over the highlighted area).

There were missing sections of concern in the document regarding adherence to the *EPA Requirements for Quality Assurance Project Plans* (EPA QA/R-5). The following sections were not present:

- Section 20: Assessment and Response Actions
- Section 21: Reports to Management
- Section 23: Validation and Verification Methods
- Section 24: Reconciliation with Data Quality Objectives

We look forward to discussing this with you.

Best Regards,

Adam

Adam M. Zachary, Ph.D. | Physical Scientist |
Laboratory Services and Applied Science Division | Quality Assurance and Program Services Branch | Quality Assurance Section |
U.S. Environmental Protection Agency | 980 College Station Road | Athens, GA 30605-2720 |
Voice: 706-355-8657 | Email: zachary.adam@epa.gov

Waterson, Sara

From: Chen, Xi
Sent: Tuesday, May 26, 2020 1:12 PM
To: deanna.oser@dnr.ga.gov
Cc: Waterson, Sara; Weinstock, Lewis
Subject: RE: GA EPD samplers

Hi DeAnna,

Julie said “ we have their probes in rotation now. They should be analyzing those blanks this week.”. I believe she will touch base with you shortly.

Doris

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Friday, May 22, 2020 2:00 PM
To: Chen, Xi <Chen.Xi@epa.gov>
Cc: Waterson, Sara <Waterson.Sara@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>
Subject: Re: GA EPD samplers

Thank you. Yes we have two spares plus some we are using to check spatial changes in concentrations.

Have a great weekend!

Sent from my iPhone

On May 22, 2020, at 1:04 PM, Chen, Xi <Chen.Xi@epa.gov> wrote:

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OK. DeAnna, if you need me to check with ERG to see where things are, I am happy to do that. Do you right now have any backup samplers in hand?

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Friday, May 22, 2020 11:44 AM
To: Waterson, Sara <Waterson.Sara@epa.gov>
Cc: Chen, Xi <Chen.Xi@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>
Subject: Re: GA EPD samplers

Doris-

Ga EPD purchased these samplers ourselves for the ethylene oxide project. We have sent all the samplers we have purchased to ERG for the zero check prior to deploying them in the field for sample collection. I believe that this is the last batch they have (they have done about 1/2 of them) and they are in line behind canister analyses. We have a purchase order for this work, so I know it will get done eventually.

DeAnna

Sent from my iPhone

On May 22, 2020, at 10:59 AM, Waterson, Sara <Waterson.Sara@epa.gov> wrote:

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Thanks Doris. I'm pulling in DeAnna.

DeAnna- am I correct in that you have requested the samplers and ERG has told you they are unable to send them to you right now due to a back-up?

Thanks-

Sara

From: Chen, Xi <Chen.Xi@epa.gov>
Sent: Friday, May 22, 2020 10:57 AM
To: Waterson, Sara <Waterson.Sara@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>
Subject: RE: GA EPD samplers

Those are typically supplied and maintained by ERG(e.g. cleaning and filter replacement). I think it is reasonable to request to have at least one backup sampler in hand, that is the case for Willowbrook sampling at the time. I think GA EPD can definitely urge ERG to send them an extra sampler and generally speaking, ERG has been able to accommodate that. Let me know if you need us to get involved and talk to ERG about this.

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Friday, May 22, 2020 10:48 AM
To: Chen, Xi <Chen.Xi@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>
Subject: RE: GA EPD samplers

Yes, and they have timers on them.

From: Chen, Xi <Chen.Xi@epa.gov>
Sent: Friday, May 22, 2020 10:43 AM
To: Waterson, Sara <Waterson.Sara@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>
Subject: RE: GA EPD samplers

Hi Sara,

Are you referring to those passive sampling probe with pressure gauge and inline filter?

Doris

From: Waterson, Sara <Waterson.Sara@epa.gov>

Sent: Friday, May 22, 2020 10:33 AM

To: Chen, Xi <Chen.Xi@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>

Subject: GA EPD samplers

Hi Lew and Doris-

I'm talking to DeAnna about EtO monitoring around the ATL area. She said they are limited on replacing samplers if needed b/c ERG has had 5 of their samplers for a zero check since November. She has talked to Julie, and Julie said they are backed up with samples that have holding times. DeAnna understands that holding times are important, but if something should happen to one of their samplers they wouldn't be able to replace it. Is there anything that could be done to help GA EPD get these samplers in the near future?

Thanks! Have a great long weekend-

Sara

Sara Waterson

US EPA Region 4

ARD/AASB

Air Data & Analysis Section

PH: (404) 562-9061

FX: (404) 562-9095

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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Friday, June 19, 2020 11:20 AM
To: Waterson, Sara
Cc: Hays, Karen
Subject: RE: email

Yes – we have a data validator do the review and then the QA manager verify the data. For this study, I am also signing off on the data as the third review (we usually have validation/verification/QA manager review for criteria and NATTS).

The time depends on many factors – how large the data set is, what else needs to be reviewed at that time (i.e. do we need to submit data to AQS for our regulatory deadlines, etc), and how many questions we have for the lab on the data. As you saw this morning, we sometimes find questions at the last minute that we need to get clarification on to make sure we are being consistent with our reviews. We also have to request information from the lab occasionally which will cause a delay.

It takes about two – three weeks for the reviews once we get the data. We want to make sure we are thorough and consistent. We do not have staff dedicated to this project. Our validators are also doing criteria and NATTS validation as well.

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Friday, June 19, 2020 11:08 AM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Subject: RE: email

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Absolutely, it's your study and you should know if we respond to part of it. I was also wanting to reach out to you about timelines. In terms of your internal review- you have a quality assurance person look over the data packages, check logbooks and other information provided by the lab (such as pressure) to ensure the integrity of the sample, and then do you have another person look over it again? How long does that process usually take?
Thanks!

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Friday, June 19, 2020 11:04 AM
To: Waterson, Sara <Waterson.Sara@epa.gov>
Subject: email

Thanks for letting me know Sara. We offered to set up a call with EPA to discuss this and that citizen declined our offer.

Waterson, Sara

From: Worley, Gregg
Sent: Thursday, September 26, 2019 4:41 PM
To: Oser, DeAnna
Cc: Hays, Karen; Gillam, Rick; Mitchell, Ken; Kemker, Carol; Diaz, Denisse; Ackerman, Laura; Dika Kuoh; Waterson, Sara; Brown, Ryan; Garver, Daniel
Subject: Quality Assurance Project Plan for the Georgia Ambient Air Monitoring Program for Ethylene Oxide
Attachments: GA AAMP QAPP Ethylene Oxide - EPA signature.pdf

DeAnna,

We have reviewed the following document that you submitted for approval:

Quality Assurance Project Plan for the Georgia Ambient Air Monitoring Program for Ethylene Oxide

The quality assurance and technical elements within this QAPP were compared to EPA regulations and current guidance. The stated procedures appear to be clear, sound, and appropriate as written. EPA approval of this document is granted. This QAPP should be reviewed internally by Georgia EPD and revised when procedures or other aspects of the project change.

If you have any questions, please contact Rick Gillam at 404-562-9049 or Gillam.Rick@epa.gov.

Thanks,
Gregg

Gregg M. Worley
Chief, Air Analysis and Support Branch
Air and Radiation Division
(404) 562-9141
worley.gregg@epa.gov

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Wednesday, March 11, 2020 12:00 PM
To: R4airqa; Waterson, Sara; Brown, Ryan
Cc: Janet Aldredge
Subject: Revised QAPP for Ethylene Oxide Study
Attachments: GA AAMP QAPP Ethylene Oxide.Revision 1.pdf

Please find attached our revised QAPP for the Ethylene Oxide Study. Due to the locations we found for our sites, our discussion of the spatial measurements had to be modified. Please let me know if you have any questions.

Thank you!

DeAnna

DeAnna Oser
Ambient Monitoring Program Manager
GA EPD – Air Branch
DeAnna.Oser@dnr.ga.gov
Office: 404-363-7004

Waterson, Sara

From: Aldredge, Janet <Janet.Aldredge@dnr.ga.gov>
Sent: Monday, March 16, 2020 11:56 AM
To: Waterson, Sara; deanna.oser@dnr.ga.gov
Subject: RE: Revised QAPP for Ethylene Oxide Study
Attachments: Draft GA AAMP QAPP Ethylene Oxide revision 1.docx

Hello,
Here is the word version for you. We will send revised wording for adding potential monitors soon.
Thanks,
Janet

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Monday, March 16, 2020 9:51 AM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Cc: Aldredge, Janet <Janet.Aldredge@dnr.ga.gov>; Waterson, Sara <Waterson.Sara@epa.gov>
Subject: RE: Revised QAPP for Ethylene Oxide Study

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DeAnna and Janet-

I was thinking about the most efficient way to review the updated QAPP. I have a Word version of the last one. If you can send me the Word version of this one I can do a compare document and quickly see where changes were made. I would likely be able to get it approved this week.

Also, DeAnna and I had talked about the language for future monitoring to be covered under the QAPP. Currently, the QAPP says:

The GA AAMP will subsequently place monitors in other locations as deemed necessary for the collection of ethylene oxide data.

This language doesn't make it obvious that it is talking about potential future monitoring around additional facilities. You may want to consider something like the language below. However, my concern is that sampling at SSG is not currently following the procedures you laid out in the QAPP since you are monitoring in the neighborhood rather than primary and secondary wind directions. Something to think about when adding language for future monitoring. (the suggested language below doesn't cover that, you would want to include your sampling design reasoning).

The GA AAMP may place monitors in other locations around additional facilities deemed necessary for the collection of ethylene oxide data. Those monitors will follow this QAPP, and monitors around any additional facilities will follow the monitoring objectives and procedures defined in this QAPP.

Thank you!
Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Wednesday, March 11, 2020 12:00 PM
To: R4airqa <R4airqa@epa.gov>; Waterson, Sara <Waterson.Sara@epa.gov>; Brown, Ryan <Brown.Ryan@epa.gov>

Cc: Janet Aldredge <Janet.Aldredge@dnr.ga.gov>

Subject: Revised QAPP for Ethylene Oxide Study

Please find attached our revised QAPP for the Ethylene Oxide Study. Due to the locations we found for our sites, our discussion of the spatial measurements had to be modified. Please let me know if you have any questions.

Thank you!

DeAnna

DeAnna Oser

Ambient Monitoring Program Manager

GA EPD – Air Branch

DeAnna.Oser@dnr.ga.gov

Office: 404-363-7004

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Tuesday, March 17, 2020 3:29 PM
To: Waterson, Sara; Janet Aldredge
Cc: Rinck, Todd
Subject: RE: Revised QAPP for Ethylene Oxide Study
Attachments: ATT00001.txt

Categories: Record Saved - Shared

Sara –

We are only doing trip blanks around the facility locations to ensure that there is no contamination in transport (and because laura wanted us to 😊)

As for the quarterly report – we ended up with a memo for each data set being sent from Farhana (QA Manager) to me to Karen for posting them to the web. We don't need a formal memo since this is an involved process.

As for the language you suggested, here is what we want to go with.

The GA AAMP may place samplers in other locations around additional facilities deemed necessary for the collection of ethylene oxide data. Those samplers will follow this QAPP, and samplers around any additional facilities will follow the monitoring objectives and procedures defined in this QAPP. For all sites used for this data study that are not established GA AAMP network sites, placement of samplers in relation to any affected source is contingent on the availability of ambient monitoring locations. All other aspects of the sample (from collection to verification) will follow the procedures outlined in this QAPP.

We will send you a revised QAPP with this language included.

Thanks.

DeAnna

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Tuesday, March 17, 2020 2:22 PM
To: Aldredge, Janet <Janet.Aldredge@dnr.ga.gov>; Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Cc: Rinck, Todd <Rinck.Todd@epa.gov>; Waterson, Sara <Waterson.Sara@epa.gov>
Subject: RE: Revised QAPP for Ethylene Oxide Study

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Janet-

This made it so much easier to go through your changes in the QAPP, thank you so much!

I've reviewed the updated QAPP and would just like to ask a few clarifying things.

- I saw you put specific locations for trip blanks. Are you not doing trip blanks for either of your background sites?
- You decided to no longer have a quarterly memo to the program manager? (not a big deal, I'm just curious about the change)

Other than those minor questions, the biggest outstanding issue would be the language throughout the document regarding additional sampling. I think it would be an easy fix, but right now the language does not read as if the QAPP would cover sampling around additional facilities, but rather additional sampling at facilities with existing monitoring. Additionally, as I mentioned yesterday, the SSG sampling doesn't quite follow the same procedures laid out in the QAPP despite the added language saying the same procedures would be followed for additional sites. Once you all are able to address that, I'll be able to sign the updated QAPP.

Thank you for your continued hard work!
Sara

From: Aldredge, Janet <Janet.Aldredge@dnr.ga.gov>
Sent: Monday, March 16, 2020 11:56 AM
To: Waterson, Sara <Waterson.Sara@epa.gov>; deanna.oser@dnr.ga.gov
Subject: RE: Revised QAPP for Ethylene Oxide Study

Hello,
Here is the word version for you. We will send revised wording for adding potential monitors soon.
Thanks,
Janet

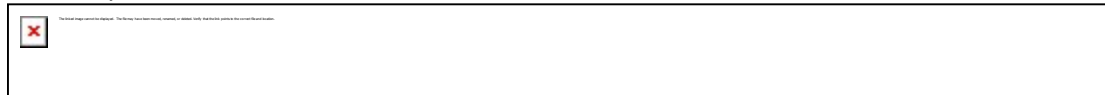
From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Monday, March 16, 2020 9:51 AM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Cc: Aldredge, Janet <Janet.Aldredge@dnr.ga.gov>; Waterson, Sara <Waterson.Sara@epa.gov>
Subject: RE: Revised QAPP for Ethylene Oxide Study

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DeAnna and Janet-

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The GA AAMP may place monitors in other locations around additional facilities deemed necessary for the collection of ethylene oxide data. Those monitors will follow this QAPP, and monitors around any additional facilities will follow the monitoring objectives and procedures defined in this QAPP.

Thank you!

Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>

Sent: Wednesday, March 11, 2020 12:00 PM

To: R4airqa <R4airqa@epa.gov>; Waterson, Sara <Waterson.Sara@epa.gov>; Brown, Ryan <Brown.Ryan@epa.gov>

Cc: Janet Aldredge <Janet.Aldredge@dnr.ga.gov>

Subject: Revised QAPP for Ethylene Oxide Study

Please find attached our revised QAPP for the Ethylene Oxide Study. Due to the locations we found for our sites, our discussion of the spatial measurements had to be modified. Please let me know if you have any questions.

Thank you!

DeAnna

DeAnna Oser

Ambient Monitoring Program Manager

GA EPD – Air Branch

DeAnna.Oser@dnr.ga.gov

Office: 404-363-7004

Waterson, Sara

From: Aldredge, Janet <Janet.Aldredge@dnr.ga.gov>
Sent: Wednesday, March 18, 2020 7:06 AM
To: Waterson, Sara; deanna.oser@dnr.ga.gov
Cc: Rinck, Todd
Subject: RE: Revised QAPP for Ethylene Oxide Study
Attachments: ATT00001.txt; GA AAMP QAPP Ethylene Oxide.Revision 1.pdf

Hello,

I'm sending the attached revised QAPP with the updated language that was requested (added to both Section 6.0 and 10.0). DeAnna sent an email yesterday to answer your other questions. Let us know if you need anything else.

Thanks,
Janet

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Tuesday, March 17, 2020 2:22 PM
To: Aldredge, Janet <Janet.Aldredge@dnr.ga.gov>; Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Cc: Rinck, Todd <Rinck.Todd@epa.gov>; Waterson, Sara <Waterson.Sara@epa.gov>
Subject: RE: Revised QAPP for Ethylene Oxide Study

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From: Aldredge, Janet <Janet.Aldredge@dnr.ga.gov>
Sent: Monday, March 16, 2020 11:56 AM
To: Waterson, Sara <Waterson.Sara@epa.gov>; deanna.oser@dnr.ga.gov
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Sent: Monday, March 16, 2020 9:51 AM

To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>

Cc: Aldredge, Janet <Janet.Aldredge@dnr.ga.gov>; Waterson, Sara <Waterson.Sara@epa.gov>

Subject: RE: Revised QAPP for Ethylene Oxide Study

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The GA AAMP may place monitors in other locations around additional facilities deemed necessary for the collection of ethylene oxide data. Those monitors will follow this QAPP, and monitors around any additional facilities will follow the monitoring objectives and procedures defined in this QAPP.

Thank you!

Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>

Sent: Wednesday, March 11, 2020 12:00 PM

To: R4airqa <R4airqa@epa.gov>; Waterson, Sara <Waterson.Sara@epa.gov>; Brown, Ryan <Brown.Ryan@epa.gov>

Cc: Janet Aldredge <Janet.Aldredge@dnr.ga.gov>

Subject: Revised QAPP for Ethylene Oxide Study

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Thank you!

DeAnna

DeAnna Oser

Ambient Monitoring Program Manager

GA EPD – Air Branch
DeAnna.Oser@dnr.ga.gov
Office: 404-363-7004

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Thursday, March 26, 2020 12:48 PM
To: Sanchez, Franklin; nrd2@cdc.gov; Waterson, Sara
Subject: Oser, DeAnna shared "Raw Data" with you.

The website has been updated with the latest set of data.

Also, here is a link to the raw data updated to include the latest dataset. You will need to save the file on your end. Please let me know if it does not work.



This link only works for the direct recipients of this message.



Raw Data

Open



Microsoft respects your privacy. To learn more, please read our [Privacy Statement](#).
Microsoft Corporation, One Microsoft Way, Redmond, WA 98052

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Tuesday, April 7, 2020 1:39 PM
To: Waterson, Sara; Brown, Ryan; R4airqa
Cc: Janet Aldredge; Yasmin, Farhana
Subject: Ethylene Oxide QAPP
Attachments: GA AAMP QAPP Ethylene Oxide Revision 1.pdf

Categories: Record Saved - Shared

Sara,

Please find attached our revised QAPP for our ethylene oxide study. Please see Appendix A as we discussed for the most recent information.

Please let me know if you have any questions.

DeAnna

DeAnna Oser
Ambient Monitoring Program Manager
GA EPD – Air Branch
DeAnna.Oser@dnr.ga.gov
Office: 404-363-7004

Waterson, Sara

From: Chen, Xi
Sent: Friday, April 17, 2020 8:10 AM
To: Waterson, Sara
Cc: deanna.oser@dnr.ga.gov; Weinstock, Lewis
Subject: RE: chromatographs for review

Hi Sara,
No problem, I will be happy to help. I believe ERG will send data packages in .pdf format. DeAnna can forward those to me for review. Let me know if any other questions.

Thanks,
Doris

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Thursday, April 16, 2020 5:00 PM
To: Chen, Xi <Chen.Xi@epa.gov>
Cc: deanna.oser@dnr.ga.gov; Weinstock, Lewis <Weinstock.Lewis@epa.gov>
Subject: chromatographs for review

Doris-
Lew had offered your help in reviewing EtO data for GA a couple of weeks ago. DeAnna had some data that she was unsure about, and she requested the chromatographs. Would you be able to help her review them? How should she get them to you?
Thanks!
Sara

Sara Waterson
US EPA Region 4
ARD/AASB
Air Data & Analysis Section
PH: (404) 562-9061
FX: (404) 562-9095

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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Friday, April 17, 2020 8:24 AM
To: Chen, Xi
Cc: Waterson, Sara; Gore, Jaime
Subject: FW: Analytical data reports - March 2020
Attachments: Cov 1_25_20 data.pdf; Dekalb 2_9_20 data.pdf

Doris,

Thank you for your help. These are the two data packages I requested from ERG.

We would appreciate your assistance and guidance on what you look at when you review the data.

You can reach me at my cell 404.310.6353. I am in meetings all day today, but when you have time next week or so, would appreciate talking through this with you.

Thank you again!

DeAnna

DeAnna Oser
Ambient Monitoring Program Manager
GA EPD – Air Branch
DeAnna.Oser@dnr.ga.gov
Office: 404-363-7004

From: Julie Swift <Julie.Swift@erg.com>
Sent: Thursday, April 16, 2020 4:07 PM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>; Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Cc: Yasmin, Farhana <Farhana.Yasmin@dnr.ga.gov>
Subject: RE: Analytical data reports - March 2020

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DeAnna – I have attached the data packages for these two samples. Please let me know if you have any questions.
Thank you! Julie

Julie L. Swift
ERG
Office - (919) 468-7924 | Fax - (919) 468-7803
julie.swift@erg.com

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Thursday, April 16, 2020 2:34 PM
To: Julie Swift <Julie.Swift@erg.com>; Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Cc: Yasmin, Farhana <Farhana.Yasmin@dnr.ga.gov>
Subject: RE: Analytical data reports - March 2020

Julie-

Please send me the full data package with chromatograms and any associated QA data for samples 0013117-02 (1/25/20 -C4) and 0022018 – 01 (2/9/20 South DeKalb).

Thank you.

DeAnna

From: Julie Swift <Julie.Swift@erg.com>
Sent: Thursday, April 16, 2020 2:19 PM
To: Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Cc: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Subject: Analytical data reports - March 2020

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Jaime – I have attached the analytical data reports for the samples collected at your sites sampled in March 2020. I reported what was ready, so some of the dates are later than others (i.e., Cobb samples through 4/10, Covington samples through 4/16). The summary sheet and the overall spreadsheets are also attached. The reports are using the 2020 MDLS. These have slightly increased from 0.0250 to 0.0285 ppbv.

Please let me know if you have any questions. Julie

Julie L. Swift

VP/Program Manager/Chemist

ERG

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

Office - (919) 468-7924 | Fax - (919) 468-7803

julie.swift@erg.com

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Friday, April 17, 2020 10:35 AM
To: Waterson, Sara; Gore, Jaime; Chen, Xi
Subject: Oser, DeAnna shared "C4 1.25.20" with you.

Doris,

Attached is a link to the COC. These sample concentrations were higher than we have previously seen in this study.

I am free Tuesday after 10 AM the rest of the day.

Thanks.



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C4 1.25.20

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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Friday, April 17, 2020 4:21 PM
To: Waterson, Sara; R4airqa
Cc: Janet Aldredge; Farhana.Yasmin; Gore, Jaime
Subject: GA AAMP QAPP for Ethylene Oxide - Revised
Attachments: GA AAMP QAPP Ethylene Oxide Revision 1.4.14.20.pdf

Categories: Record Saved - Shared

Sara –

Please find the revised ethylene oxide QAPP. We have made the changes requested in the GA AAMP Additional Sites Attachment placed at the end of our QAPP before the attachment with ERG's QAPP.

Please let me know if you have any further questions.

Have a great weekend!

DeAnna

DeAnna Oser
Ambient Monitoring Program Manager
GA EPD – Air Branch
DeAnna.Oser@dnr.ga.gov
Office: 404-363-7004

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Wednesday, April 29, 2020 3:51 PM
To: Waterson, Sara
Subject: Oser, DeAnna shared "Raw Data" with you.

info requested



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Raw Data

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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Friday, May 22, 2020 2:00 PM
To: Chen, Xi
Cc: Waterson, Sara; Weinstock, Lewis
Subject: Re: GA EPD samplers

Thank you. Yes we have two spares plus some we are using to check spatial changes in concentrations.

Have a great weekend!

Sent from my iPhone

On May 22, 2020, at 1:04 PM, Chen, Xi <Chen.Xi@epa.gov> wrote:

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OK. DeAnna, if you need me to check with ERG to see where things are, I am happy to do that. Do you right now have any backup samplers in hand?

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Friday, May 22, 2020 11:44 AM
To: Waterson, Sara <Waterson.Sara@epa.gov>
Cc: Chen, Xi <Chen.Xi@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>
Subject: Re: GA EPD samplers

Doris-

Ga EPD purchased these samplers ourselves for the ethylene oxide project. We have sent all the samplers we have purchased to ERG for the zero check prior to deploying them in the field for sample collection. I believe that this is the last batch they have (they have done about 1/2 of them) and they are in line behind canister analyses. We have a purchase order for this work, so I know it will get done eventually.

DeAnna

Sent from my iPhone

On May 22, 2020, at 10:59 AM, Waterson, Sara <Waterson.Sara@epa.gov> wrote:

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Thanks Doris. I'm pulling in DeAnna.

DeAnna- am I correct in that you have requested the samplers and ERG has told you they are unable to send them to you right now due to a back-up?

Thanks-

Sara

From: Chen, Xi <Chen.Xi@epa.gov>
Sent: Friday, May 22, 2020 10:57 AM
To: Waterson, Sara <Waterson.Sara@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>
Subject: RE: GA EPD samplers

Those are typically supplied and maintained by ERG(e.g. cleaning and filter replacement). I think it is reasonable to request to have at least one backup sampler in hand, that is the case for Willowbrook sampling at the time. I think GA EPD can definitely urge ERG to send them an extra sampler and generally speaking, ERG has been able to accommodate that. Let me know if you need us to get involved and talk to ERG about this.

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Friday, May 22, 2020 10:48 AM
To: Chen, Xi <Chen.Xi@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>
Subject: RE: GA EPD samplers

Yes, and they have timers on them.

From: Chen, Xi <Chen.Xi@epa.gov>
Sent: Friday, May 22, 2020 10:43 AM
To: Waterson, Sara <Waterson.Sara@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>
Subject: RE: GA EPD samplers

Hi Sara,
Are you referring to those passive sampling probe with pressure gauge and inline filter?

Doris

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Friday, May 22, 2020 10:33 AM
To: Chen, Xi <Chen.Xi@epa.gov>; Weinstock, Lewis <Weinstock.Lewis@epa.gov>
Subject: GA EPD samplers

Hi Lew and Doris-
I'm talking to DeAnna about EtO monitoring around the ATL area. She said they are limited on replacing samplers if needed b/c ERG has had 5 of their samplers for a zero check since November. She has talked to Julie, and Julie said they are backed up with samples that have holding times. DeAnna understands that holding times are important,

but if something should happen to one of their samplers they wouldn't be able to replace it. Is there anything that could be done to help GA EPD get these samplers in the near future?

Thanks! Have a great long weekend-

Sara

Sara Waterson

US EPA Region 4

ARD/AASB

Air Data & Analysis Section

PH: (404) 562-9061

FX: (404) 562-9095

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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Friday, June 5, 2020 12:29 PM
To: Waterson, Sara; Hoadley, Lydia (ATSDR/DCHI/OD); anita.saha@dph.ga.gov
Subject: Oser, DeAnna shared "raw data 6-5-20" with you.

Hello! Data updated for the latest results posted (april 9) on our website. Also, background site was missing data from March and April that has been included. Let me know if you have any questions.

Anita, I assume I don't need to let Frank know also - if he needs to be copied as well, let me know.

Thanks!
DeAnna



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raw data 6-5-20

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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Thursday, June 18, 2020 1:08 PM
To: Waterson, Sara
Subject: FW: Duplicate blank analysis for the last set of samples
Attachments: ga EtO summaryV1.xlsx; covington apr15_may3 20R.pdf; covington apr15_may3 20R.xls

From: Julie Swift <Julie.Swift@erg.com>
Sent: Wednesday, June 17, 2020 11:37 AM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Cc: Yasmin, Farhana <Farhana.Yasmin@dnr.ga.gov>; Gore, Jaime <Jaime.Gore@dnr.ga.gov>; Donna Tedder <Donna.Tedder@erg.com>; Jennifer Nash <Jennifer.Nash@erg.com>
Subject: RE: Duplicate blank analysis for the last set of samples

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DeAnna – I had the Task Lead look into the replicate analysis differences. This sample should have been re-analyzed due to water management issues on the replicate analysis. Since it was not re-analyzed, the replicate analysis should have been invalidated.

After looking over the results and the data, we feel the 0.48 ppbv response should be reported and the replicate analysis (shown in the QC page) should be removed from the reported data. I have attached updated spreadsheets and reports.

I apologize for the error and we will be writing a Corrective Action for our laboratory for this issue. Please let me know if you have any questions. Thank you. Julie

Julie L. Swift

ERG

Office - (919) 468-7924 | Fax - (919) 468-7803

julie.swift@erg.com

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Tuesday, June 16, 2020 4:17 PM
To: Julie Swift <Julie.Swift@erg.com>
Cc: Yasmin, Farhana <Farhana.Yasmin@dnr.ga.gov>; Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Subject: Duplicate blank analysis for the last set of samples

Julie, for Batch B0E2104 (see above report) – I have a question about the QA acceptance criteria.

It does not appear that the 25% RPD was met. Am I looking at the correct thing on page 22? Also, I don't see the applicable corrective actions per your QAPP – would those be in a different report?

If we need to discuss, let me know.

Thanks!

DeAnna Oser
Ambient Monitoring Program Manager
GA EPD – Air Branch
DeAnna.Oser@dnr.ga.gov
Office: 404-363-7004
Cell: 404-310-6353

Waterson, Sara

From: Chen, Xi
Sent: Friday, June 19, 2020 10:50 AM
To: deanna.oser@dnr.ga.gov; Waterson, Sara
Cc: Yasmin, Farhana
Subject: RE: Question for you

Hi DeAnna,

Thank you for reaching out. For the stability study we conducted through Battelle, I think the 41 days will be the longest time we have data for, unfortunately we don't have any additional information beyond that time stamp. And I can't provide any feedback on the stability information provided by Enthalpy since we don't know the details of that particular study. And you were right, their lab's EtO performance has been consistently outside our PT acceptance criteria.

I believe for canisters used for sampling but have passed 30 days since cleaning(given that other criteria are met), you could use AQS qualifier "2" to indicate such deviation from typical practice. Let me know if you have any other questions.

Thanks,
Doris

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Friday, June 19, 2020 9:29 AM
To: Waterson, Sara <Waterson.Sara@epa.gov>; Chen, Xi <Chen.Xi@epa.gov>
Cc: Yasmin, Farhana <Farhana.Yasmin@dnr.ga.gov>
Subject: Question for you

For the stability of the ethylene oxide gas in the canister...I know Kristin Trapp at Region 4 did a study to show at 41 days, it was still very stable. Do we know how much longer it is stable past that? We have a few cans that were used at 40 and 49 days past cleaning and then analyzed almost a month later. I am trying to figure out if they need to be nulled or qualified. Do you have any additional information?

Enthalpy labs told me they had done studies to show that it was stable for 3 months, but I haven't seen that – they were consistently off on the PT, but since it was consistent, that means the EtO measurements were also consistent on their end and the three month study may be reliable. The weight of evidence looks like the concentration was valid that day, but with the variability of EtO I can't hold to that like I can for the criteria pollutants. Have you run across this before? We have ensured that this won't happen going forward.

Thanks.

DeAnna Oser
Ambient Monitoring Program Manager
GA EPD – Air Branch
DeAnna.Oser@dnr.ga.gov
Office: 404-363-7004

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Thursday, June 25, 2020 8:00 AM
To: Hoadley, Lydia (ATSDR/DCHI/OD); anita.saha@dph.ga.gov; Waterson, Sara
Subject: Oser, DeAnna shared "raw data 6-25-20" with you.

Thank you for getting together yesterday. It was helpful to discuss and make sure we are all on the same page. Here is a link to the data we talked about yesterday. Please let me know if you have any questions!

DeAnna

DeAnna



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raw data 6-25-20

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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Friday, July 17, 2020 10:28 AM
To: Douglas Turner; Chen, Xi
Cc: Waterson, Sara; Zachary, Adam; Gore, Jaime; Yasmin, Farhana
Subject: FW: Canister pressure

Doug-

I have an odd question for you. We are utilizing passive samplers for our ethylene oxide sampling at our NATTs site. We have been voiding samples that have a pressure difference of more than 3 inches Hg between the field recovery and the lab receipt. However, on a recent set of samples, the lab recorded MORE vacuum than we recorded in the field – which would not indicate a leak during transport.

Have you seen this for other passive samplers? We thought it may be a gauge discrepancy – but we checked the gauge against another certified gauge and everything was fine. As you can see from the email below, we don't run across this discrepancy very often. I wanted to make sure we were making the correct call.

The lab had sufficient volume to run the sample. In your experience, would this case of seeing more vacuum at the lab (as compared to the final pressure at recovery) void the sample?

Thanks.

DeAnna

From: Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Sent: Thursday, July 16, 2020 10:42 AM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Subject: FW: Canister pressure

FYI

From: Julie Swift <Julie.Swift@erg.com>
Sent: Thursday, July 16, 2020 10:40 AM
To: Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Subject: RE: Canister pressure

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Jaime – yes, we normally do not 'worry' about the canisters that are more pressurized here because 9 times out of 10 it would be the differences between the gauges. Most of the samples from that site read higher here than they did at the site. Does this help? Julie

sample date	Site	Field P	"Hg unless otherwise specified	converted to "Hg	Lab P "Hg	"Hg unless otherwise specified	difference	42	= count+v
4/9	dekalb	5.5		5.5	7.5		-2.0		
4/15	dekalb	0		0.0	0		0.0		
4/15	dekalb	27.56	psi	27.6	12.5	psi	15.1		
4/21	dekalb	13.1		13.1	15		-1.9		
4/27	dekalb	6.3		6.3	7		-0.7		
5/3	dekalb	8.5		8.5	7.1		1.4		
5/3	dekalb	4.1		4.1	6.5		-2.4		
5/9	dekalb	4.1		4.1	7.5		-3.4		
5/9	nr285	18.1	psi	18.1	18.75	psi	-0.6		
5/15	dekalb	0		0.0	6		-6.0	0" reading from site. Under	
5/21	dekalb	5		5.0	5		0.0		
5/27	dekalb	18.2		18.2	18.5		-0.3	void - sampler flooded	
6/2	dekalb	1.5		1.5	2.5		-1.0		
6/2	dekalb	4		4.0	5		-1.0		
6/8	dekalb	3		3.0	3		0.0		
6/14	dekalb	3.8		3.8	3		0.8		
6/14	nr285	18.8	psi	18.8	18.75	psi	0.1		
6/20	dekalb	2		2.0	2.5		-0.5		
6/26	dekalb	2.9		2.9	2.5		0.4		
7/2	dekalb	3.7		3.7	3.5		0.2		
7/2	dekalb	4.9		4.9	5		-0.1		
				0.0			0.0		

Julie L. Swift

ERG

Office - (919) 468-7924 | Fax - (919) 468-7803

julie.swift@erg.com

From: Gore, Jaime <Jaime.Gore@dnr.ga.gov>

Sent: Thursday, July 16, 2020 7:29 AM

To: Julie Swift <Julie.Swift@erg.com>

Subject: Canister pressure

Hey Julie,

We have noticed that a couple of canisters chain of custody forms and lab receipt pressures a more than 3" off, but not in the direction that would indicate a leak in the canister. I know it is not physically possible for the vacuum to increase in transit, so how does the lab handle this type of situation? I believe the QAPP states more than a 3" difference, but I assumed it was if it was lab receipt greater than 3" indicating a leak in the canister.

South DeKalb:

Sample collected on 5/9

Field Setup	Received by: <u>J. GORE</u>	Date: <u>4/19/20</u>
	Operator: <u>J. BRYANT</u>	MFC Setting: _____
	System #: _____	Elapsed Timer Reset (Y/N): <u>Y</u>
	Setup Date: <u>5/9/20</u>	Canister Valve Opened (Y/N): <u>Y</u>
	Field Initial Can. Press.: <u>29.1</u> psig psia <u>"Hg" (Circle one)</u>	
Field Recovery	Recovery Date: <u>5/12/20</u>	Sample Duration (3 or 24 hr): <u>24</u>
	Operator: <u>J. BRYANT</u>	Elapsed Time: _____
	Field Final Can. Press.: <u>4.1</u> psig psia <u>"Hg" (Circle one)</u>	
	Status: <u>VALID</u> VOID (Circle one)	Canister Valve Closed (Y/N): <u>Y</u>
	Relinquished by: <u>J. BRYANT</u>	Date: <u>5/12/20</u>

ATTN: MS. JAIME GORE

PHONE: (404) 362-4912 FAX: (919) 541-0516

Description: South Dekalb

Lab ID: 0051507-

Pressure @ Receipt: 7.50" Hg

Canister #: SAT130

Comments:

Analyte	Air Toxics by EPA Compe			ML
	Results			
	ppbv	ug/m ³	Flag	ppb
Ethylene oxide	0.0864	0.16		0.02

Thank you,

Jaime Gore
Operations 1 Unit Manager
Ambient Monitoring Program
Air Protection Branch
Georgia Environmental Protection Division

Office: (404) 362-4912
Cell: (770) 633-5136

Waterson, Sara

From: Turner, Douglas J <TurnerD@battelle.org>
Sent: Friday, July 17, 2020 11:40 AM
To: deanna.oser@dnr.ga.gov; Chen, Xi
Cc: Waterson, Sara; Zachary, Adam; Gore, Jaime; Yasmin, Farhana
Subject: RE: Canister pressure

Hi Jaime,

This is a weird one. On the whole, the increase in vacuum isn't an obvious reason for invalidating the result, but does warrant some investigation. It may be an isolated issue, but if you continue to see this situation, it might be worthwhile to measure the field retrieval pressure with a separate gauge to confirm the reading on the passive sampler.

Temperature is one reason variable that can impact canister pressure readings, but it takes a 25°C temperature decrease to reduce the pressure (or increase the vacuum) by 2.5 "Hg. Likely you're not seeing temperatures in the field of 45C to account for such a temperature change. The discrepancy could be a combination of gauge error and temperature change, though this doesn't seem likely either. The other two things I would suspect are 1) that there are errors in reading the gauge(s) (not common, but does occur at the field or laboratory for a number of reasons) or 2) that depending on the configuration of the passive sampler solenoid valve(s) and gauge, there may be some leaking into the space where the gauge measures that somehow does not impact the canister (I would need to see a photo of the setup to confirm this is even possible). This second scenario may be more likely given that the sampler was out in the field for a couple of days before retrieval.

Please let us know what you find or if there is more we can do to troubleshoot.

Have a nice weekend!

Douglas Turner

Principal Research Scientist
Environmental Assessment
Office: 614.424.3112 | Fax: 614.458.3112
turnerd@battelle.org

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From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Friday, July 17, 2020 10:28 AM
To: Turner, Douglas J <TurnerD@battelle.org>; Chen, Xi <chen.xi@epa.gov>
Cc: Waterson, Sara <waterson.sara@epa.gov>; Zachary, Adam <zachary.adam@epa.gov>; Gore, Jaime <Jaime.Gore@dnr.ga.gov>; Yasmin, Farhana <Farhana.Yasmin@dnr.ga.gov>
Subject: FW: Canister pressure

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Doug-

I have an odd question for you. We are utilizing passive samplers for our ethylene oxide sampling at our NATTs site. We have been voiding samples that have a pressure difference of more than 3 inches Hg between the field recovery and the lab receipt. However, on a recent set of samples, the lab recorded MORE vacuum than we recorded in the field – which would not indicate a leak during transport.

Have you seen this for other passive samplers? We thought it may be a gauge discrepancy – but we checked the gauge against another certified gauge and everything was fine. As you can see from the email below, we don't run across this discrepancy very often. I wanted to make sure we were making the correct call.

The lab had sufficient volume to run the sample. In your experience, would this case of seeing more vacuum at the lab (as compared to the final pressure at recovery) void the sample?

Thanks.

DeAnna

From: Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Sent: Thursday, July 16, 2020 10:42 AM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Subject: FW: Canister pressure

FYI

From: Julie Swift <Julie.Swift@erg.com>
Sent: Thursday, July 16, 2020 10:40 AM
To: Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Subject: RE: Canister pressure

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Jaime – yes, we normally do not 'worry' about the canisters that are more pressurized here because 9 times out of 10 it would be the differences between the gauges. Most of the samples from that site read higher here than they did at the site. Does this help? Julie

sample date	Site	Field P	"Hg unless otherwise specified	converted to "Hg	Lab P "Hg	"Hg unless otherwise specified	difference	42	= count+v
4/9	dekalb	5.5		5.5	7.5		-2.0		
4/15	dekalb	0		0.0	0		0.0		
4/15	dekalb	27.56	psi	27.6	12.5	psi	15.1		
4/21	dekalb	13.1		13.1	15		-1.9		
4/27	dekalb	6.3		6.3	7		-0.7		
5/3	dekalb	8.5		8.5	7.1		1.4		
5/3	dekalb	4.1		4.1	6.5		-2.4		
5/9	dekalb	4.1		4.1	7.5		-3.4		
5/9	nr285	18.1	psi	18.1	18.75	psi	-0.6		
5/15	dekalb	0		0.0	6		-6.0	0" reading from site. Under	
5/21	dekalb	5		5.0	5		0.0		
5/27	dekalb	18.2		18.2	18.5		-0.3	void - sampler flooded	
6/2	dekalb	1.5		1.5	2.5		-1.0		
6/2	dekalb	4		4.0	5		-1.0		
6/8	dekalb	3		3.0	3		0.0		
6/14	dekalb	3.8		3.8	3		0.8		
6/14	nr285	18.8	psi	18.8	18.75	psi	0.1		
6/20	dekalb	2		2.0	2.5		-0.5		
6/26	dekalb	2.9		2.9	2.5		0.4		
7/2	dekalb	3.7		3.7	3.5		0.2		
7/2	dekalb	4.9		4.9	5		-0.1		
				0.0			0.0		

Julie L. Swift

ERG

Office - (919) 468-7924 | Fax - (919) 468-7803

julie.swift@erg.com

From: Gore, Jaime <Jaime.Gore@dnr.ga.gov>

Sent: Thursday, July 16, 2020 7:29 AM

To: Julie Swift <Julie.Swift@erg.com>

Subject: Canister pressure

Hey Julie,

We have noticed that a couple of canisters chain of custody forms and lab receipt pressures a more than 3" off, but not in the direction that would indicate a leak in the canister. I know it is not physically possible for the vacuum to increase in transit, so how does the lab handle this type of situation? I believe the QAPP states more than a 3" difference, but I assumed it was if it was lab receipt greater than 3" indicating a leak in the canister.

South DeKalb:

Sample collected on 5/9

Field Setup	Received by: <u>J. GORE</u>	Date: <u>4/19/20</u>
	Operator: <u>J. BRYANT</u>	MFC Setting: _____
	System #: _____	Elapsed Timer Reset (Y/N): <u>Y</u>
	Setup Date: <u>5/9/20</u>	Canister Valve Opened (Y/N): <u>Y</u>
	Field Initial Can. Press.: <u>29.1</u> psig psia <u>"Hg" (Circle one)</u>	
Field Recovery	Recovery Date: <u>5/12/20</u>	Sample Duration (3 or 24 hr): <u>24</u>
	Operator: <u>J. BRYANT</u>	Elapsed Time: _____
	Field Final Can. Press.: <u>4.1</u> psig psia <u>"Hg" (Circle one)</u>	
	Status: <u>VALID</u> VOID (Circle one)	Canister Valve Closed (Y/N): <u>Y</u>
	Relinquished by: <u>J. BRYANT</u>	Date: <u>5/12/20</u>

ATTN: MS. Jaime Gore

PHONE: (404) 362-4912 FAX: (919) 541-0516

Description: South Dekalb

Lab ID: 0051507-

Pressure @ Receipt: 7.50" Hg

Canister #: SAT130

Comments:

Analyte	Air Toxics by EPA Compe			ME
	Results			
	ppbv	ug/m ³	Flag	ppb
Ethylene oxide	0.0864	0.16		0.02

Thank you,

Jaime Gore
Operations 1 Unit Manager
Ambient Monitoring Program
Air Protection Branch
Georgia Environmental Protection Division

Office: (404) 362-4912
Cell: (770) 633-5136

Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Friday, July 17, 2020 3:09 PM
To: anita.saha@dph.ga.gov; Hoadley, Lydia (ATSDR/DCHI/OD); Brown, Ryan; Waterson, Sara
Subject: Oser, DeAnna shared "Raw Data" with you.

Here is the data through may 15 (some for may 21). I'll let you know when the next set of data is available.

Let me know if you have any questions!

DeAnna



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Raw Data

Open



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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Thursday, August 13, 2020 5:24 PM
To: Waterson, Sara; Brown, Ryan; anita.saha@dph.ga.gov; Hoadley, Lydia (ATSDR/DCHI/OD); hzd3@cdc.gov
Subject: Oser, DeAnna shared "Raw Data" with you.

Hello. We are in the process of posting data through June 20 at all sites. The results are consistent with what we have seen to date. Let me know if you have any questions.

Hope everyone is staying safe and well!
DeAnna



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Raw Data

Open



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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Monday, March 8, 2021 8:08 AM
To: Waterson, Sara
Cc: Gore, Jaime
Subject: RE: GA EPD EtO questions

Sara – we did receive them on Thursday (however, no tracking information was sent), but with the sample day being Friday, we did not have time to set them up across Atlanta. WE are at least a week ahead with our cans for the time being, so that will help for the rest of the study. Thank you anyway for checking.

We have a call set up with ERG this week – we will mention the delay to them.

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Friday, March 5, 2021 2:57 PM
To: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Cc: Gore, Jaime <Jaime.Gore@dnr.ga.gov>
Subject: FW: GA EPD EtO questions

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

DeAnna-
Please see Doris' reply below regarding your questions with the cans.
Thank you-
Sara

From: Chen, Xi <Chen.Xi@epa.gov>
Sent: Friday, March 5, 2021 1:39 PM
To: Waterson, Sara <Waterson.Sara@epa.gov>
Cc: Watkins, Nealson <Watkins.Nealson@epa.gov>
Subject: RE: GA EPD EtO questions

Sara,
Julie said they checked and it seemed GA EPD has received the shipments and she also has responded to DeAnna earlier today on that. About the canisters, ERG has already been screening their fleet and those canisters being sent to GA, Julie said she will directly talk to DeAnna about this.

Thanks,
Doris

From: Waterson, Sara <Waterson.Sara@epa.gov>
Sent: Friday, March 05, 2021 8:18 AM
To: Chen, Xi <Chen.Xi@epa.gov>
Cc: Watkins, Nealson <Watkins.Nealson@epa.gov>; Waterson, Sara <Waterson.Sara@epa.gov>
Subject: GA EPD EtO questions

Doris-

I spoke with GA EPD yesterday and they asked me to reach out to you about 2 things.

1. Can you please provide a list of can numbers EPA has determined to have had EtO growth? They would like to use the list to check not only cans that have been used previously in their study, but also to ensure they do not deploy a can with questionable history in the future.
2. Have you heard anything about a delay in can shipment from ERG? As of yesterday, GA EPD still had not received their cans for today's sampling event. They tried to contact Julie earlier in the week but had not heard back from her as of yesterday afternoon.

Thank you-

Sara

Sara Waterson
US EPA Region 4
ARD/AASB
Air Data & Analysis Section
PH: (404) 562-9061
FX: (404) 562-9095

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Waterson, Sara

From: Oser, DeAnna <DeAnna.Oser@dnr.ga.gov>
Sent: Tuesday, October 20, 2020 2:19 PM
To: Waterson, Sara; Brown, Ryan; Hoadley, Lydia (ATSDR/DCHI/OD); hzd3@cdc.gov; Sanchez, Franklin; anita.saha@dph.ga.gov; Byeong.Kim@dnr.ga.gov; Gore, Jaime; Janet Aldredge
Subject: Oser, DeAnna shared "study results for agencies 10-20-20" with you.

The latest data through August 13. Please note that the data for F1 on 5/13 has been updated as well. please let me know if you have any questions.

DeAnna



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study results for agencies 10-20-20

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Waterson, Sara

From: Aldredge, Janet <Janet.Aldredge@dnr.ga.gov>
Sent: Thursday, March 4, 2021 9:52 AM
To: R4airqa; Zachary, Adam; Waterson, Sara
Cc: deanna.oser@dnr.ga.gov
Subject: GA AAMP EtO QAPP resubmittal
Attachments: GA AAMP QAPP Emerging Technologies for Ethylene Oxide.pdf

Hello,

Please find the attached edited QAPP according to recent discussions. The following edit was added to the previous submitted QAPP. This, as well as noting it in the Revision History, is the only edit.

“For the GA AAMP ethylene oxide monitoring project to follow these MQOs, the data produced will be considered of sufficient quantity and quality for the decision making to commence. The MQOs are used by GA AAMP to control and assess measurement uncertainties. The following data validation table outlines the acceptance criteria to meet these MQOs. GA AAMP uses the acceptance criteria provided in EPA supplied guidance *Technical Assistance Document for the National Air Toxics Trends Stations Program, Revision 3*, dated October 2016 as a guide, and unless otherwise noted, the references shown in the table refer to this document. Samples that are at ambient pressure upon recovery may be qualified; however, per EPA’s memo dated February 23, 2021, samples at ambient pressure upon recovery will be voided.”

With the last correspondence, I sent the link to the SOPs and the working pdf version with our comments. If you need me to resend any of this, let me know.

Thanks,

Janet Aldredge
Data Analysis Unit Manager
Ambient Monitoring Program
Air Protection Branch
GA Environmental Protection Division
Phone: 470-938-3390 (**New**)

